From:	Roberson, Sharon
To:	Wagner, Christine
Cc:	[redacted] Scurato, Jesse; Graybill, Eric
Subject:	R35727 - Validated Electronic Data for Shiloh Church Road
Date:	Tuesday, May 19, 2020 1:06:00 PM
Attachments:	R35727 C0B37 LTR.pdf image001.png R35727_C0B37_DVR.pdf R35727_C0B37_SSR.pdf

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Christine Wagner
US EPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Christine,

Attached to this message you will find electronic files containing the validation report and validated data for the Shiloh Church Road site, Case # R35727, SDG C0B37. The validation of this case was completed by the Region III Environmental Services Assistance Team (ESAT).

Please contact ESAT's RPO, Eric Graybill by phone at 410-305-2665 or e-mail at Graybill.Eric@epa.gov if additional assistance is needed.

TO # 0002 TDF # 0120053

Sharon Roberson |Chemistry Data Manager| 410-305-3037 | Roberson.Sharon@epa.gov
ICF | 701 Mapes Road, Fort Meade, MD 20755-5350

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: 5/19/2020

SUBJECT: Region III Data QA Review

FROM: Eric Graybill
Region III ESAT RPO (3LS20)

TO: CHRIS WAGNER
Hazardous Site Cleanup Division (HSCD)

Attached is the data validation report for the SHILOH CHURCH RD REMOVAL ACTION site for DAS# R35727; SDG# C0B37 completed by the Region III Environmental Services Assistance Team (ESAT) contractor, ICF International, under the direction of Region III LSASD.

If you have any questions regarding this review, please call Eric Graybill at (410)-305-2665.

Attachment

cc: Non-responsive based on revised
Non-responsive based on revised

TO: #0002 TDF: #0120053

ICF
ESAT Region 3
US Environmental Protection Agency Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Phone 410-305-3012

Date: May 1, 2020

To: ESAT Region 3 Project Officer

From: [redacted]
Validator

[redacted]
Reviewer

Subject: Organic Data Validation (S4VM)
Shiloh Church Road
R35727 C0B37

Overview

This data package consisted of one (1) water sample and four (4) soil samples analyzed for volatile, pesticide and semivolatile target analytes.

Analyses were performed by Chemtech (CHM). The samples were submitted to the laboratory directly by the sampling contractor. The laboratory indicated analyses were performed according to SW 846 Methods 8260C, 8270D and 8081B.

Data were validated according to the National Functional Guidelines for Organic Superfund Methods Data Review and applicable USEPA Region 3 modifications. Electronic validation was performed by the Electronic Data eXchange & Evaluation System (EXES). The validation report has been assigned the Superfund Data Validation Label S4VM (Stage_4_Validation__Manual).

The following validation narrative is an evaluation of laboratory reported data based on the electronic data package received by Region 3 on January 7, 2020. The EDD provided was not consistent with EPA Region 3 format. The EDD was not revised as part of the validation and will not be provided with the validation report.

Summary

No significant data quality outliers or technical deficiencies were identified that required rejection of sample results. Results required estimation due to calibration issues, surrogate recovery and Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries.

Minor Problems

In the semivolatile fraction, target analyte isophorone failed to meet the percent difference (%D) criteria in continuing calibration verification (CCV) standard BP001384.D. This analyte was non-detect in associated sample C0B40. This non-detect is estimated and has been qualified "UJ".

In the pesticide fraction, the percent recovery for surrogate tetrachloro-m-xylene were outside the upper control limits in the initial and diluted analyses of sample C0B37. Detected concentrations of pesticides in this sample are estimated and have been qualified "J".

Percent recoveries for target analytes in Matrix Spike/Matrix Spike Duplicate (MS/MSD) analysis of pesticide sample C0B37 were within control limits expect alpha-BHC, 4,4'-DDD and alpha-Chlordane had high recoveries. Relative Percent Differences (RPDs) were with control limits expect alpha-BHC. Detected concentrations of these analytes in the parent sample are estimated and have been qualified "J".

Notes

The laboratory reported non-detected results at the Method Detection Limit (MDL). Non-detected results are not reliable below the Reporting Limit (RL). The non-detected results were revised to the Reporting Limit (i.e., LOQ) and qualified "U".

Samples with detected concentrations for target analytes less than Contract Required Quantitation Limits (CRQLs) are estimated and have been qualified "J".

Pesticide results with %D >25% but <200% between the two analytical columns have been qualified "J". The lower of the two (2) column results is reported.

The method blanks in all fractions were free from contamination.

The percent recoveries for volatile target analytes in the Laboratory Control Samples (LCS) (VX1224MBS01) analysis were with control limits. No data were qualified based on LCS precision.

Percent recoveries and RPDs for volatile target analytes in the LCS/LCSD (VD1226SBS01/ VD1226SBSD01) analyses were within control limits. No data were qualified based on LCS/LCSD precision or accuracy.

Percent recoveries and RPDs for volatile target analytes in the LCS/LCSD (VX1223WBS01/ VX1223WBSD01) analyses were within control limits expect tetrachloroethene had a high RPD recovery. Associated sample C0B53 was non-detect for this analyte. No data were qualified based on these findings.

The percent recoveries for semivolatile/pesticide target analytes in the LCS analysis were with control limits. No data were qualified based on LCS precision.

In the volatile fractions, the following samples were initially analyzed at dilution to due high concentrations of target analytes. The CRQL in these samples are elevated due to the dilution factor. No data were qualified based on these findings.

Samples	Dilution factors
C0B37, C0B40	40x
C0B38	20x

In the semivolatile fraction, 2,4,6-tribromophenol failed to meet the percent difference (%D) criteria in continuing calibration verification (CCV) standard BP001384.D. This analyte is used as a surrogate in the semivolatile analysis. No qualification of the data is necessary based on the surrogate %D.

In the semivolatile fraction, target analytes 1,4- dioxane, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, 4-nitrophenol, benzo(g,h,i)perylene, hexachlorocyclopentadiene, hexachloroethane, indeno(1,2,3-cd)pyrene and pentachlorophenol failed to meet the percent difference (%D) criteria in continuing calibration verification (CCV) standard BP00408.D. The associated samples are the diluted analyses of C0B37 and C0B38. These analytes were not reported from the diluted analyses. No data were qualified based on these findings.

Concentrations for the following target analytes exceeded the calibration range in the initial analysis for the sample listed below. These samples were reanalyzed at the dilution listed in order to quantitate these analytes within the calibration range. Results for these analytes were reported from the dilution by the laboratory. There is no indication that these exceedance issues impacted subsequent sample analyses.

Fractions	Samples	Dilution factors	Analytes
Semivolatile	C0B37	5x	Naphthalene
	C0B38	2x	3+4-Methylphenols
Pest	C0B37	10x	4,4-DDD

Sample calculation checks were performed. All calculated results had RPDs less than 5% of the reported results. No sample data were qualified.

Manual integrations were performed and identified by the laboratory. A subset of these was evaluated and were found to be accurate and consistent. No action was taken based on manual integrations.

Tentatively Identified Compounds (TICs) are not reviewed by data validators. The validation qualifiers are applied by EXES electronic validation based on laboratory qualifiers. By definition, all compounds identified as TICs should be treated as tentative identifications and all reported results should be considered estimated.

Glossary of Organic Data Qualifier Codes

Validation Qualifiers	In order of descending precedence. Only one of these qualifiers may apply to any result.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.

Additional Qualifiers	Additional qualifiers may be combined with other qualifiers.
N	The analyte has been “tentatively identified” or “presumptively” as present.
B	The result is presumed a blank contaminant. This qualifier is used for drinking water samples only.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatography/Mass Spectrometry (GC/MS). This qualifier may be added to other qualifiers.
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed. This qualifier may be added to other qualifiers.

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	24.9
Sample Wt/Vol:	4.72 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014239.D	40		12/24/19 12:55	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	~~5100~~ 28200	U	5100	28200	ug/Kg
74-87-3	Chloromethane	~~10100~~	U	10100	28200	ug/Kg
75-01-4	Vinyl Chloride	~~6300~~	U	6300	28200	ug/Kg
74-83-9	Bromomethane	~~2100~~	U	2100	28200	ug/Kg
75-00-3	Chloroethane	~~3200~~	U	3200	28200	ug/Kg
75-69-4	Trichlorofluoromethane	~~3600~~	U	3600	28200	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	~~4500~~	U	4500	28200	ug/Kg
75-35-4	1,1-Dichloroethene	~~5600~~	U	5600	28200	ug/Kg
67-64-1	Acetone	~~43300~~ 141000	U	43300	141000	ug/Kg
75-15-0	Carbon Disulfide	~~6000~~ 28200	U	6000	28200	ug/Kg
1634-04-4	Methyl tert-butyl Ether	~~7900~~	U	7900	28200	ug/Kg
79-20-9	Methyl Acetate	~~15900~~	U	15900	28200	ug/Kg
75-09-2	Methylene Chloride	~~29300~~ 56400	U	29300	56400	ug/Kg
156-60-5	trans-1,2-Dichloroethene	~~7100~~ 28200	U	7100	28200	ug/Kg
75-34-3	1,1-Dichloroethane	~~5100~~	U	5100	28200	ug/Kg
110-82-7	Cyclohexane	~~10100~~	U	10100	28200	ug/Kg
78-93-3	2-Butanone	~~37600~~ 141000	U	37600	141000	ug/Kg
56-23-5	Carbon Tetrachloride	~~4700~~ 28200	U	4700	28200	ug/Kg
156-59-2	cis-1,2-Dichloroethene	~~5600~~	U	5600	28200	ug/Kg
74-97-5	Bromochloromethane	~~6700~~	U	6700	28200	ug/Kg
67-66-3	Chloroform	~~4900~~	U	4900	28200	ug/Kg
71-55-6	1,1,1-Trichloroethane	~~6000~~	U	6000	28200	ug/Kg
108-87-2	Methylcyclohexane	~~6700~~	U	6700	28200	ug/Kg
71-43-2	Benzene	~~4700~~	U	4700	28200	ug/Kg
107-06-2	1,2-Dichloroethane	~~6800~~	U	6800	28200	ug/Kg
79-01-6	Trichloroethene	49500		5300	28200	ug/Kg
78-87-5	1,2-Dichloropropane	~~7000~~ 28200	U	7000	28200	ug/Kg
75-27-4	Bromodichloromethane	~~5600~~	U	5600	28200	ug/Kg
108-10-1	4-Methyl-2-Pentanone	~~31600~~ 141000	U	31600	141000	ug/Kg
108-88-3	Toluene	~~5500~~ 28200	U	5500	28200	ug/Kg
10061-02-6	t-1,3-Dichloropropene	~~5700~~	U	5700	28200	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	~~6000~~	U	6000	28200	ug/Kg

Non-respon

1/2/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	24.9
Sample Wt/Vol:	4.72 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014239.D	40		12/24/19 12:55	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	~~8000~~ 28200	U	8000	28200	ug/Kg
591-78-6	2-Hexanone	~~41600~~ 141000	U	41600	141000	ug/Kg
124-48-1	Dibromochloromethane	~~7400~~ 28200	U	7400	28200	ug/Kg
106-93-4	1,2-Dibromoethane	~~7300~~	U	7300	28200	ug/Kg
127-18-4	Tetrachloroethene	~~3900~~	U	3900	28200	ug/Kg
108-90-7	Chlorobenzene	~~4400~~	U	4400	28200	ug/Kg
100-41-4	Ethyl Benzene	122000		4800	28200	ug/Kg
179601-23-1	m/p-Xylenes	435000		9300	56400	ug/Kg
95-47-6	o-Xylene	164000		6200	28200	ug/Kg
100-42-5	Styrene	~~5600~~ 28200	U	5600	28200	ug/Kg
75-25-2	Bromoform	~~18500~~ 28200	U	18500	28200	ug/Kg
98-82-8	Isopropylbenzene	6700	J	4900	28200	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	~~6100~~ 28200	U	6100	28200	ug/Kg
541-73-1	1,3-Dichlorobenzene	~~6000~~	U	6000	28200	ug/Kg
106-46-7	1,4-Dichlorobenzene	~~6000~~	U	6000	28200	ug/Kg
95-50-1	1,2-Dichlorobenzene	~~7200~~	U	7200	28200	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	~~18800~~	U	18800	28200	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	~~6300~~	U	6300	28200	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	~~7200~~	U	7200	28200	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		56 - 120	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		57 - 135	97%	SPK: 50
2037-26-5	Toluene-d8	50.1		67 - 123	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		33 - 141	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	546000	5.65			
540-36-3	1,4-Difluorobenzene	847000	6.85			
3114-55-4	Chlorobenzene-d5	774000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	359000	12.07			
TENTATIVE IDENTIFIED COMPOUNDS						
000111-84-2	Nonane	218000	J		10.4	ug/Kg
	unknown10.64	68100	J		10.6	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	98900	J		10.8	ug/Kg

Non-respons 4/2/20

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	24.9
Sample Wt/Vol:	4.72 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID: 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014239.D	40		12/24/19 12:55	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000696-29-7	Cyclohexane, (1-methylethyl)-	73700	J		10.9	ug/Kg
005911-04-6	Nonane, 3-methyl-	102000	J		11.2	ug/Kg
103-65-1	n-propylbenzene	10800	J		11.3	ug/Kg
000611-14-3	Benzene, 1-ethyl-2-methyl-	63900	J		11.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	42400	J		11.5	ug/Kg
98-06-6	tert-Butylbenzene	4900	J		11.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	75600	J		11.8	ug/Kg
135-98-8	sec-Butylbenzene	6700	J		11.9	ug/Kg
99-87-6	p-Isopropyltoluene	7500	J		12.1	ug/Kg
006975-98-0	Decane, 2-methyl-	70500	J		12.2	ug/Kg
013151-34-3	Decane, 3-methyl-	60900	J		12.2	ug/Kg
104-51-8	n-Butylbenzene	13900	J		12.4	ug/Kg
001120-21-4	Undecane	230000	J		12.5	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38	SDG No.:	K6401
Lab Sample ID:	K6401-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	28.1
Sample Wt/Vol:	4.58 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID: 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014240.D	20		12/24/19 13:19	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	~~2800~~ 15200	U	2800	15200	ug/Kg
74-87-3	Chloromethane	~~5400~~	U	5400	15200	ug/Kg
75-01-4	Vinyl Chloride	~~3400~~	U	3400	15200	ug/Kg
74-83-9	Bromomethane	~~1100~~	U	1100	15200	ug/Kg
75-00-3	Chloroethane	~~1700~~	U	1700	15200	ug/Kg
75-69-4	Trichlorofluoromethane	~~2000~~	U	2000	15200	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	~~2400~~	U	2400	15200	ug/Kg
75-35-4	1,1-Dichloroethene	~~3000~~	U	3000	15200	ug/Kg
67-64-1	Acetone	~~23300~~ 75900	U	23300	75900	ug/Kg
75-15-0	Carbon Disulfide	~~3300~~ 15200	U	3300	15200	ug/Kg
1634-04-4	Methyl tert-butyl Ether	~~4200~~	U	4200	15200	ug/Kg
79-20-9	Methyl Acetate	~~8500~~	U	8500	15200	ug/Kg
75-09-2	Methylene Chloride	~~15800~~ 30400	U	15800	30400	ug/Kg
156-60-5	trans-1,2-Dichloroethene	~~3800~~ 15200	U	3800	15200	ug/Kg
75-34-3	1,1-Dichloroethane	~~2800~~	U	2800	15200	ug/Kg
110-82-7	Cyclohexane	~~5500~~	U	5500	15200	ug/Kg
78-93-3	2-Butanone	~~20300~~ 75900	U	20300	75900	ug/Kg
56-23-5	Carbon Tetrachloride	~~2500~~ 15200	U	2500	15200	ug/Kg
156-59-2	cis-1,2-Dichloroethene	~~3000~~	U	3000	15200	ug/Kg
74-97-5	Bromochloromethane	~~3600~~	U	3600	15200	ug/Kg
67-66-3	Chloroform	~~2600~~	U	2600	15200	ug/Kg
71-55-6	1,1,1-Trichloroethane	~~3200~~	U	3200	15200	ug/Kg
108-87-2	Methylcyclohexane	~~3600~~	U	3600	15200	ug/Kg
71-43-2	Benzene	~~2500~~	U	2500	15200	ug/Kg
107-06-2	1,2-Dichloroethane	~~3600~~	U	3600	15200	ug/Kg
79-01-6	Trichloroethene	~~4600~~	J	2800	15200	ug/Kg
78-87-5	1,2-Dichloropropane	~~3800~~	U	3800	15200	ug/Kg
75-27-4	Bromodichloromethane	~~3000~~	U	3000	15200	ug/Kg
108-10-1	4-Methyl-2-Pentanone	~~17000~~ 75900	U	17000	75900	ug/Kg
108-88-3	Toluene	~~6800~~ 15200	J	3000	15200	ug/Kg
10061-02-6	t-1,3-Dichloropropene	~~3100~~	U	3100	15200	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	~~3300~~	U	3300	15200	ug/Kg

[redacted] 1/2/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38	SDG No.:	K6401
Lab Sample ID:	K6401-04	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	28.1
Sample Wt/Vol:	4.58 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID: 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014240.D	20		12/24/19 13:19	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	~~4300~~ 15200	U	4300	15200	ug/Kg
591-78-6	2-Hexanone	~~22400~~ 75900	U	22400	75900	ug/Kg
124-48-1	Dibromochloromethane	~~4000~~ 15200	U	4000	15200	ug/Kg
106-93-4	1,2-Dibromoethane	~~3900~~	U	3900	15200	ug/Kg
127-18-4	Tetrachloroethene	~~2100~~	U	2100	15200	ug/Kg
108-90-7	Chlorobenzene	~~2400~~	U	2400	15200	ug/Kg
100-41-4	Ethyl Benzene	110000		2600	15200	ug/Kg
179601-23-1	m/p-Xylenes	369000		5000	30400	ug/Kg
95-47-6	o-Xylene	87800		3300	15200	ug/Kg
100-42-5	Styrene	~~3000~~ 15200	U	3000	15200	ug/Kg
75-25-2	Bromoform	~~10000~~	U	10000	15200	ug/Kg
98-82-8	Isopropylbenzene	~~2600~~	U	2600	15200	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	~~3300~~	U	3300	15200	ug/Kg
541-73-1	1,3-Dichlorobenzene	~~3200~~	U	3200	15200	ug/Kg
106-46-7	1,4-Dichlorobenzene	~~3200~~	U	3200	15200	ug/Kg
95-50-1	1,2-Dichlorobenzene	~~3900~~	U	3900	15200	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	~~10100~~	U	10100	15200	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	~~3400~~	U	3400	15200	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	~~3900~~	U	3900	15200	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		56 - 120	99%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		57 - 135	98%	SPK: 50
2037-26-5	Toluene-d8	50.4		67 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		33 - 141	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	532000	5.65			
540-36-3	1,4-Difluorobenzene	818000	6.85			
3114-55-4	Chlorobenzene-d5	749000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	343000	12.07			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown1.62	17100	J		1.62	ug/Kg

Non-responsive [redacted] 4/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B39	SDG No.:	K6401
Lab Sample ID:	K6401-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	22.9
Sample Wt/Vol:	3.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064593.D	1		12/26/19 12:17	VD122619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.30	J	1.80	9.70	ug/Kg
74-87-3	Chloromethane	~~3.50~~ 9.70	U	3.50	9.70	ug/Kg
75-01-4	Vinyl Chloride	~~2.20~~	U	2.20	9.70	ug/Kg
74-83-9	Bromomethane	~~0.74~~	U	0.74	9.70	ug/Kg
75-00-3	Chloroethane	~~1.10~~	U	1.10	9.70	ug/Kg
75-69-4	Trichlorofluoromethane	~~1.30~~	U	1.30	9.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	~~1.60~~	U	1.60	9.70	ug/Kg
75-35-4	1,1-Dichloroethene	~~1.90~~	U	1.90	9.70	ug/Kg
67-64-1	Acetone	25.8	J	15.0	48.7	ug/Kg
75-15-0	Carbon Disulfide	~~2.10~~ 9.70	U	2.10	9.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	~~2.70~~	U	2.70	9.70	ug/Kg
79-20-9	Methyl Acetate	~~5.50~~	U	5.50	9.70	ug/Kg
75-09-2	Methylene Chloride	~~10.1~~ 19.5	U	10.1	19.5	ug/Kg
156-60-5	trans-1,2-Dichloroethene	~~2.40~~ 9.70	U	2.40	9.70	ug/Kg
75-34-3	1,1-Dichloroethane	~~1.80~~	U	1.80	9.70	ug/Kg
110-82-7	Cyclohexane	~~3.50~~	U	3.50	9.70	ug/Kg
78-93-3	2-Butanone	~~13.0~~ 48.7	U	13.0	48.7	ug/Kg
56-23-5	Carbon Tetrachloride	~~1.60~~ 9.70	U	1.60	9.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	1.90	9.70	ug/Kg
74-97-5	Bromochloromethane	~~2.30~~	U	2.30	9.70	ug/Kg
67-66-3	Chloroform	~~3.60~~	J	1.70	9.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	~~2.10~~	U	2.10	9.70	ug/Kg
108-87-2	Methylcyclohexane	~~2.30~~	U	2.30	9.70	ug/Kg
71-43-2	Benzene	~~1.60~~	U	1.60	9.70	ug/Kg
107-06-2	1,2-Dichloroethane	~~2.30~~	U	2.30	9.70	ug/Kg
79-01-6	Trichloroethene	~~1.80~~	U	1.80	9.70	ug/Kg
78-87-5	1,2-Dichloropropane	~~2.40~~	U	2.40	9.70	ug/Kg
75-27-4	Bromodichloromethane	~~1.90~~	U	1.90	9.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	~~10.9~~ 48.7	U	10.9	48.7	ug/Kg
108-88-3	Toluene	~~1.90~~ 9.70	U	1.90	9.70	ug/Kg
10061-02-6	t-1,3-Dichloropropene	~~2.00~~	U	2.00	9.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	~~2.10~~	U	2.10	9.70	ug/Kg

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B39	SDG No.:	K6401
Lab Sample ID:	K6401-05	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	22.9
Sample Wt/Vol:	3.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD064593.D	1		12/26/19 12:17	VD122619

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	~~2.80~~ 9.70	U	2.80	9.70	ug/Kg
591-78-6	2-Hexanone	~~14.4~~ 48.7	U	14.4	48.7	ug/Kg
124-48-1	Dibromochloromethane	~~2.60~~ 9.70	U	2.60	9.70	ug/Kg
106-93-4	1,2-Dibromoethane	~~2.50~~	U	2.50	9.70	ug/Kg
127-18-4	Tetrachloroethene	~~1.40~~	U	1.40	9.70	ug/Kg
108-90-7	Chlorobenzene	~~1.50~~	U	1.50	9.70	ug/Kg
100-41-4	Ethyl Benzene	~~1.70~~	U	1.70	9.70	ug/Kg
179601-23-1	m/p-Xylenes	~~3.20~~ 19.5	U	3.20	19.5	ug/Kg
95-47-6	o-Xylene	~~2.10~~ 9.70	U	2.10	9.70	ug/Kg
100-42-5	Styrene	~~1.90~~	U	1.90	9.70	ug/Kg
75-25-2	Bromoform	~~6.40~~	U	6.40	9.70	ug/Kg
98-82-8	Isopropylbenzene	1.70	U	1.70	9.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	~~2.10~~	U	2.10	9.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	~~2.10~~	U	2.10	9.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	~~2.10~~	U	2.10	9.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	~~2.50~~	U	2.50	9.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	~~6.50~~	U	6.50	9.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	~~2.20~~	U	2.20	9.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	~~2.50~~	U	2.50	9.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.0		56 - 120	116%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		57 - 135	104%	SPK: 50
2037-26-5	Toluene-d8	51.4		67 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	65.9		33 - 141	132%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	298000	7.98			
540-36-3	1,4-Difluorobenzene	482000	8.87			
3114-55-4	Chlorobenzene-d5	509000	11.65			
3855-82-1	1,4-Dichlorobenzene-d4	269000	13.58			

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B40	SDG No.:	K6401
Lab Sample ID:	K6401-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.9
Sample Wt/Vol:	5.27 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014242.D	40		12/24/19 14:05	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	~~4800~~ 26300	U	4800	26300	ug/Kg
74-87-3	Chloromethane	~~9400~~	U	9400	26300	ug/Kg
75-01-4	Vinyl Chloride	~~5900~~	U	5900	26300	ug/Kg
74-83-9	Bromomethane	~~2000~~	U	2000	26300	ug/Kg
75-00-3	Chloroethane	~~3000~~	U	3000	26300	ug/Kg
75-69-4	Trichlorofluoromethane	~~3400~~	U	3400	26300	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	~~4200~~	U	4200	26300	ug/Kg
75-35-4	1,1-Dichloroethene	~~5200~~	U	5200	26300	ug/Kg
67-64-1	Acetone	~~40400~~ 132000	U	40400	132000	ug/Kg
75-15-0	Carbon Disulfide	~~5600~~ 26300	U	5600	26300	ug/Kg
1634-04-4	Methyl tert-butyl Ether	~~7300~~	U	7300	26300	ug/Kg
79-20-9	Methyl Acetate	~~14800~~	U	14800	26300	ug/Kg
75-09-2	Methylene Chloride	~~27300~~ 52600	U	27300	52600	ug/Kg
156-60-5	trans-1,2-Dichloroethene	~~6600~~ 26300	U	6600	26300	ug/Kg
75-34-3	1,1-Dichloroethane	~~4800~~	U	4800	26300	ug/Kg
110-82-7	Cyclohexane	~~9500~~	U	9500	26300	ug/Kg
78-93-3	2-Butanone	~~35100~~ 132000	U	35100	132000	ug/Kg
56-23-5	Carbon Tetrachloride	~~4300~~ 26300	U	4300	26300	ug/Kg
156-59-2	cis-1,2-Dichloroethene	~~5200~~	U	5200	26300	ug/Kg
74-97-5	Bromochloromethane	~~6300~~	U	6300	26300	ug/Kg
67-66-3	Chloroform	~~4500~~	U	4500	26300	ug/Kg
71-55-6	1,1,1-Trichloroethane	~~5600~~	U	5600	26300	ug/Kg
108-87-2	Methylcyclohexane	~~6200~~	U	6200	26300	ug/Kg
71-43-2	Benzene	~~4400~~	U	4400	26300	ug/Kg
107-06-2	1,2-Dichloroethane	6300	U	6300	26300	ug/Kg
79-01-6	Trichloroethene	~~4900~~	U	4900	26300	ug/Kg
78-87-5	1,2-Dichloropropane	~~6600~~	U	6600	26300	ug/Kg
75-27-4	Bromodichloromethane	~~5200~~	U	5200	26300	ug/Kg
108-10-1	4-Methyl-2-Pentanone	~~29400~~ 132000	U	29400	132000	ug/Kg
108-88-3	Toluene	~~5100~~ 26300	U	5100	26300	ug/Kg
10061-02-6	t-1,3-Dichloropropene	~~5300~~	U	5300	26300	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	~~5600~~	U	5600	26300	ug/Kg

Non-responsive 12/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B40	SDG No.:	K6401
Lab Sample ID:	K6401-06	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	27.9
Sample Wt/Vol:	5.27 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID: 0.18	Level :	MED

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014242.D	40		12/24/19 14:05	VX122419

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
79-00-5	1,1,2-Trichloroethane	~~7500~~ 26300	U	7500	26300	ug/Kg
591-78-6	2-Hexanone	~~38800~~ 132000	U	38800	132000	ug/Kg
124-48-1	Dibromochloromethane	~~6900~~ 26300	U	6900	26300	ug/Kg
106-93-4	1,2-Dibromoethane	~~6800~~	U	6800	26300	ug/Kg
127-18-4	Tetrachloroethene	~~3700~~	U	3700	26300	ug/Kg
108-90-7	Chlorobenzene	13200	J	4100	26300	ug/Kg
100-41-4	Ethyl Benzene	~~4500~~ 26300	U	4500	26300	ug/Kg
179601-23-1	m/p-Xylenes	~~8700~~ 52600	U	8700	52600	ug/Kg
95-47-6	o-Xylene	~~5800~~ 26300	U	5800	26300	ug/Kg
100-42-5	Styrene	~~5200~~	U	5200	26300	ug/Kg
75-25-2	Bromoform	~~17300~~	U	17300	26300	ug/Kg
98-82-8	Isopropylbenzene	~~4600~~	U	4600	26300	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	~~5700~~	U	5700	26300	ug/Kg
541-73-1	1,3-Dichlorobenzene	114000		5600	26300	ug/Kg
106-46-7	1,4-Dichlorobenzene	164000		5600	26300	ug/Kg
95-50-1	1,2-Dichlorobenzene	326000		6700	26300	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	~~17500~~ 26300	U	17500	26300	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	15300	J	5900	26300	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	~~6700~~ 26300	U	6700	26300	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		56 - 120	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		57 - 135	97%	SPK: 50
2037-26-5	Toluene-d8	50.4		67 - 123	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		33 - 141	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	550000	5.65			
540-36-3	1,4-Difluorobenzene	837000	6.85			
3114-55-4	Chlorobenzene-d5	761000	10.11			
3855-82-1	1,4-Dichlorobenzene-d4	356000	12.07			

Non-responsive [redacted] 12/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/19/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B53	SDG No.:	K6401
Lab Sample ID:	K6401-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID: 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014207.D	1		12/23/19 17:09	VX122319

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	~~0.22~~ 5.0	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.30	U	0.30	5.00	ug/L
75-01-4	Vinyl Chloride	0.16	U	0.16	5.00	ug/L
74-83-9	Bromomethane	2.10	U	2.10	5.00	ug/L
75-00-3	Chloroethane	0.34	U	0.34	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.16	U	0.16	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.21	U	0.21	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.18	U	0.18	5.00	ug/L
67-64-1	Acetone	0.90 25.0	U	0.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.23 5.0	U	0.23	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.070	U	0.070	5.00	ug/L
79-20-9	Methyl Acetate	0.65	U	0.65	5.00	ug/L
75-09-2	Methylene Chloride	0.33	U	0.33	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.24	U	0.24	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.17	U	0.17	5.00	ug/L
110-82-7	Cyclohexane	1.20	U	1.20	5.00	ug/L
78-93-3	2-Butanone	0.71 25.0	U	0.71	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.22 5.0	U	0.22	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.30	U	0.30	5.00	ug/L
74-97-5	Bromochloromethane	0.31	U	0.31	5.00	ug/L
67-66-3	Chloroform	0.14	U	0.14	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.12	U	0.12	5.00	ug/L
108-87-2	Methylcyclohexane	0.17	U	0.17	5.00	ug/L
71-43-2	Benzene	0.10	U	0.10	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.13	U	0.13	5.00	ug/L
79-01-6	Trichloroethene	0.27	U	0.27	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.14	U	0.14	5.00	ug/L
75-27-4	Bromodichloromethane	0.10	U	0.10	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.85 25.0	U	0.85	25.0	ug/L
108-88-3	Toluene	0.12 5.0	U	0.12	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.19	U	0.19	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L

Non-responsive [redacted] 12/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/19/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B53	SDG No.:	K6401
Lab Sample ID:	K6401-07	Matrix:	Water
Analytical Method:	SW8260	% Moisture:	100
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX014207.D	1		12/23/19 17:09	VX122319

AS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
9-00-5	1,1,2-Trichloroethane	~~0.12~~ 5.0	U	0.12	5.00	ug/L
91-78-6	2-Hexanone	~~1.40~~ 25.0	U	1.40	25.0	ug/L
24-48-1	Dibromochloromethane	~~0.16~~ 5.0	U	0.16	5.00	ug/L
06-93-4	1,2-Dibromoethane	~~0.14~~	U	0.14	5.00	ug/L
27-18-4	Tetrachloroethene	~~0.15~~	U	0.15	5.00	ug/L
08-90-7	Chlorobenzene	~~0.080~~	U	0.080	5.00	ug/L
00-41-4	Ethyl Benzene	~~0.080~~	U	0.080	5.00	ug/L
79601-23-1	m/p-Xylenes	~~0.20~~ 10.0	U	0.20	10.0	ug/L
5-47-6	o-Xylene	~~0.13~~ 5.0	U	0.13	5.00	ug/L
00-42-5	Styrene	~~0.11~~	U	0.11	5.00	ug/L
5-25-2	Bromoform	~~0.15~~	U	0.15	5.00	ug/L
8-82-8	Isopropylbenzene	~~0.13~~	U	0.13	5.00	ug/L
9-34-5	1,1,2,2-Tetrachloroethane	~~0.15~~	U	0.15	5.00	ug/L
41-73-1	1,3-Dichlorobenzene	~~0.14~~	U	0.14	5.00	ug/L
06-46-7	1,4-Dichlorobenzene	~~0.20~~	U	0.20	5.00	ug/L
5-50-1	1,2-Dichlorobenzene	~~0.12~~	U	0.12	5.00	ug/L
6-12-8	1,2-Dibromo-3-Chloropropane	~~0.54~~	U	0.54	5.00	ug/L
20-82-1	1,2,4-Trichlorobenzene	~~0.24~~	U	0.24	5.00	ug/L
7-61-6	1,2,3-Trichlorobenzene	~~0.26~~	U	0.26	5.00	ug/L
URROGATES						
7060-07-0	1,2-Dichloroethane-d4	48.2		61 - 141	96%	SPK: 50
868-53-7	Dibromofluoromethane	49.2		69 - 133	98%	SPK: 50
037-26-5	Toluene-d8	49.6		65 - 126	99%	SPK: 50
60-00-4	4-Bromofluorobenzene	46.2		58 - 135	92%	SPK: 50
NTERNAL STANDARDS						
63-72-4	Pentafluorobenzene	578000	5.65			
40-36-3	1,4-Difluorobenzene	885000	6.85			
114-55-4	Chlorobenzene-d5	791000	10.11			
855-82-1	1,4-Dichlorobenzene-d4	352000	12.07			
ENTATIVE IDENTIFIED COMPOUNDS						
07446-09-5	Sulfur dioxide	8.30	J		1.27	ug/L

01

[redacted] 4/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	24.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001376.D	1	12/23/19 08:45	12/23/19 19:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	~~130~~ 440	U	130	440	ug/Kg
108-95-2	Phenol	~~83.3~~	U	83.3	440	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	~~140~~	U	140	440	ug/Kg
95-57-8	2-Chlorophenol	~~87.6~~	U	87.6	440	ug/Kg
95-48-7	2-Methylphenol	~~93.3~~	U	93.3	440	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	~~120~~	U	120	440	ug/Kg
98-86-2	Acetophenone	~~120~~	U	120	440	ug/Kg
65794-96-9	3+4-Methylphenols	~~130~~	U	130	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	~~180~~	U	180	440	ug/Kg
67-72-1	Hexachloroethane	~~110~~	U	110	440	ug/Kg
98-95-3	Nitrobenzene	~~57.6~~	U	57.6	440	ug/Kg
78-59-1	Isophorone	~~48.7~~	U	48.7	440	ug/Kg
88-75-5	2-Nitrophenol	100 440	U	100	440	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		73.3	440	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	~~68.4~~ 440	U	68.4	440	ug/Kg
120-83-2	2,4-Dichlorophenol	~~68.1~~ 440	U	68.1	440	ug/Kg
91-20-3	Naphthalene	6300	E	66.1	440	ug/Kg
106-47-8	4-Chloroaniline	~~180~~ 440	U	180	440	ug/Kg
87-68-3	Hexachlorobutadiene	~~80.7~~	U	80.7	440	ug/Kg
105-60-2	Caprolactam	~~150~~	U	150	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	~~78.6~~	U	78.6	440	ug/Kg
91-57-6	2-Methylnaphthalene	540		81.7	440	ug/Kg
77-47-4	Hexachlorocyclopentadiene	~~290~~ 440	U	290	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	~~80.4~~	U	80.4	440	ug/Kg
95-95-4	2,4,5-Trichlorophenol	~~78.6~~	U	78.6	440	ug/Kg
92-52-4	1,1-Biphenyl	~~140~~	U	140	440	ug/Kg
91-58-7	2-Chloronaphthalene	~~100~~	U	100	440	ug/Kg
88-74-4	2-Nitroaniline	~~92.4~~	U	92.4	440	ug/Kg
131-11-3	Dimethylphthalate	540		67.1	440	ug/Kg
208-96-8	Acenaphthylene	~~79.7~~ 440	U	79.7	440	ug/Kg
606-20-2	2,6-Dinitrotoluene	~~93.9~~	U	93.9	440	ug/Kg

[redacted] 4/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions			Date Collected:	12/16/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B37			SDG No.:	K6401
Lab Sample ID:	K6401-01			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	24.9
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001376.D	1	12/23/19 08:45	12/23/19 19:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~170~~ 440	U	170	440	ug/Kg
83-32-9	Acenaphthene	~~90.1~~	U	90.1	440	ug/Kg
51-28-5	2,4-Dinitrophenol	~~120~~	U	120	440	ug/Kg
100-02-7	4-Nitrophenol	~~85.8~~	U	85.8	440	ug/Kg
132-64-9	Dibenzofuran	~~120~~	U	120	440	ug/Kg
121-14-2	2,4-Dinitrotoluene	~~110~~	U	110	440	ug/Kg
84-66-2	Diethylphthalate	~~84.0~~	U	84.0	440	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	~~110~~	U	110	440	ug/Kg
86-73-7	Fluorene	~~67.7~~	U	67.7	440	ug/Kg
100-01-6	4-Nitroaniline	~~120~~	U	120	440	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	~~92.8~~	U	92.8	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	~~100~~	U	100	440	ug/Kg
101-55-3	4-Bromophenyl-phenylether	~~74.9~~	U	74.9	440	ug/Kg
118-74-1	Hexachlorobenzene	~~88.4~~	U	88.4	440	ug/Kg
1912-24-9	Atrazine	~~110~~	U	110	440	ug/Kg
87-86-5	Pentachlorophenol	~~140~~	U	140	440	ug/Kg
85-01-8	Phenanthrene	~~75.8~~	U	75.8	440	ug/Kg
120-12-7	Anthracene	~~74.1~~	U	74.1	440	ug/Kg
86-74-8	Carbazole	~~120~~	U	120	440	ug/Kg
84-74-2	Di-n-butylphthalate	~~130~~	U	130	440	ug/Kg
206-44-0	Fluoranthene	~~65.7~~	U	65.7	440	ug/Kg
129-00-0	Pyrene	~~80.9~~	U	80.9	440	ug/Kg
85-68-7	Butylbenzylphthalate	~~84.8~~	U	84.8	440	ug/Kg
91-94-1	3,3-Dichlorobenzidine	~~200~~	U	200	440	ug/Kg
56-55-3	Benzo(a)anthracene	~~50.0~~	U	50.0	440	ug/Kg
218-01-9	Chrysene	~~56.5~~ 440	U	56.5	440	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	490		120	440	ug/Kg
117-84-0	Di-n-octyl phthalate	~~94.7~~ 440	U	94.7	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	~~64.6~~	U	64.6	440	ug/Kg
207-08-9	Benzo(k)fluoranthene	~~74.8~~	U	74.8	440	ug/Kg
50-32-8	Benzo(a)pyrene	~~58.9~~	U	58.9	440	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	~~96.1~~	U	96.1	440	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	~~69.5~~	U	69.5	440	ug/Kg

[redacted] 12/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	24.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001376.D	1	12/23/19 08:45	12/23/19 19:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	~~81.2~~ 440	U	81.2	440	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	~~100~~	U	100	440	ug/Kg
123-91-1	1,4-Dioxane	~~160~~	U	160	440	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	~~55.3~~	U	55.3	440	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	71.2		28 - 127	47%	SPK: 150
13127-88-3	Phenol-d6	160		34 - 127	106%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.0		31 - 132	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		39 - 123	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.5		30 - 133	58%	SPK: 150
1718-51-0	Terphenyl-d14	58.8		37 - 115	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76800	8.42			
1146-65-2	Naphthalene-d8	176000	10.39			
15067-26-2	Acenaphthene-d10	96000	13.2			
1517-22-2	Phenanthrene-d10	185000	15.61			
1719-03-5	Chrysene-d12	159000	19.26			
1520-96-3	Perylene-d12	173000	21.07			
TENTATIVE IDENTIFIED COMPOUNDS						
000108-38-3	Benzene, 1,3-dimethyl-	2900	J		6.67	ug/Kg
000111-84-2	Nonane	3200	J		6.80	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	1600	J		7.28	ug/Kg
541-73-1	1,3-Dichlorobenzene	510	J		8.35	ug/Kg
106-46-7	1,4-Dichlorobenzene	860	J		8.45	ug/Kg
95-50-1	1,2-Dichlorobenzene	1700	J		8.68	ug/Kg
001074-43-7	Benzene, 1-methyl-3-propyl-	2000	J		8.89	ug/Kg
000105-05-5	Benzene, 1,4-diethyl-	2800	J		8.95	ug/Kg
	unknown9.05	1900	J		9.05	ug/Kg
001120-21-4	Undecane	65600	J		9.48	ug/Kg
	unknown9.59	10000	J		9.59	ug/Kg
	unknown9.65	6700	J		9.65	ug/Kg
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	8900	J		9.69	ug/Kg

Non-responsive based

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Report of Analysis

Client:	Weston Solutions			Date Collected:	12/16/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B37DL			SDG No.:	K6401
Lab Sample ID:	K6401-01DL			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	24.9
Sample Wt/Vol:	30.06	Units: g		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001410.D	5	12/23/19 08:45	12/25/19 06:49	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	~~650~~ 2200	UD	650	2200	ug/Kg
108-95-2	Phenol	420	UD	420	2200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	690	UD	690	2200	ug/Kg
95-57-8	2-Chlorophenol	440	UD	440	2200	ug/Kg
95-48-7	2-Methylphenol	470	UD	470	2200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	590	UD	590	2200	ug/Kg
98-86-2	Acetophenone	620	UD	620	2200	ug/Kg
65794-96-9	3+4-Methylphenols	650	UD	650	2200	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	910	UD	910	2200	ug/Kg
67-72-1	Hexachloroethane	560	UD	560	2200	ug/Kg
98-95-3	Nitrobenzene	290	UD	290	2200	ug/Kg
78-59-1	Isophorone	240	UD	240	2200	ug/Kg
88-75-5	2-Nitrophenol	510	UD	510	2200	ug/Kg
105-67-9	2,4-Dimethylphenol	1100	JD	370	2200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	340	UD	340	2200	ug/Kg
120-83-2	2,4-Dichlorophenol	340	UD	340	2200	ug/Kg
91-20-3	Naphthalene	5600	~~D~~	330	2200	ug/Kg
106-47-8	4-Chloroaniline	~~910~~ 2200	UD	910	2200	ug/Kg
87-68-3	Hexachlorobutadiene	400	UD	400	2200	ug/Kg
105-60-2	Caprolactam	750	UD	750	2200	ug/Kg
59-50-7	4-Chloro-3-methylphenol	390	UD	390	2200	ug/Kg
91-57-6	2-Methylnaphthalene	560	JD	410	2200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1500	UD	1500	2200	ug/Kg
88-06-2	2,4,6-Trichlorophenol	400	UD	400	2200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	390	UD	390	2200	ug/Kg
92-52-4	1,1-Biphenyl	690	UD	690	2200	ug/Kg
91-58-7	2-Chloronaphthalene	500	UD	500	2200	ug/Kg
88-74-4	2-Nitroaniline	460	UD	460	2200	ug/Kg
131-11-3	Dimethylphthalate	520	JD	340	2200	ug/Kg
208-96-8	Acenaphthylene	400	UD	400	2200	ug/Kg
606-20-2	2,6-Dinitrotoluene	470	UD	470	2200	ug/Kg

Non-responsive 12/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions			Date Collected:	12/16/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B37DL			SDG No.:	K6401
Lab Sample ID:	K6401-01DL			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	24.9
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001410.D	5	12/23/19 08:45	12/25/19 06:49	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~860~~ 2202	UD	860	2200	ug/Kg
83-32-9	Acenaphthene	450	UD	450	2200	ug/Kg
51-28-5	2,4-Dinitrophenol	580	UD	580	2200	ug/Kg
100-02-7	4-Nitrophenol	430	UD	430	2200	ug/Kg
132-64-9	Dibenzofuran	600	UD	600	2200	ug/Kg
121-14-2	2,4-Dinitrotoluene	550	UD	550	2200	ug/Kg
84-66-2	Diethylphthalate	420	UD	420	2200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	550	UD	550	2200	ug/Kg
86-73-7	Fluorene	340	UD	340	2200	ug/Kg
100-01-6	4-Nitroaniline	580	UD	580	2200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	460	UD	460	2200	ug/Kg
86-30-6	n-Nitrosodiphenylamine	510	UD	510	2200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	370	UD	370	2200	ug/Kg
118-74-1	Hexachlorobenzene	440	UD	440	2200	ug/Kg
1912-24-9	Atrazine	530	UD	530	2200	ug/Kg
87-86-5	Pentachlorophenol	710	UD	710	2200	ug/Kg
85-01-8	Phenanthrene	380	UD	380	2200	ug/Kg
120-12-7	Anthracene	370	UD	370	2200	ug/Kg
86-74-8	Carbazole	600	UD	600	2200	ug/Kg
84-74-2	Di-n-butylphthalate	660	UD	660	2200	ug/Kg
206-44-0	Fluoranthene	330	UD	330	2200	ug/Kg
129-00-0	Pyrene	400	UD	400	2200	ug/Kg
85-68-7	Butylbenzylphthalate	420	UD	420	2200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	980	UD	980	2200	ug/Kg
56-55-3	Benzo(a)anthracene	250	UD	250	2200	ug/Kg
218-01-9	Chrysene	280	UD	280	2200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	610	UD	610	2200	ug/Kg
117-84-0	Di-n-octyl phthalate	470	UD	470	2200	ug/Kg
205-99-2	Benzo(b)fluoranthene	320	UD	320	2200	ug/Kg
207-08-9	Benzo(k)fluoranthene	370	UD	370	2200	ug/Kg
50-32-8	Benzo(a)pyrene	290	UD	290	2200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	480	UD	480	2200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	350	UD	350	2200	ug/Kg

Non-responsive 1/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37DL	SDG No.:	K6401
Lab Sample ID:	K6401-01DL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	24.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001410.D	5	12/23/19 08:45	12/25/19 06:49	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	410 2200	UD	410	2200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	520	UD	520	2200	ug/Kg
123-91-1	1,4-Dioxane	780	UD	780	2200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	280	UD	280	2200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	108		28 - 127	72%	SPK: 150
13127-88-3	Phenol-d6	125		34 - 127	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.7		31 - 132	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.4		39 - 123	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.2		30 - 133	49%	SPK: 150
1718-51-0	Terphenyl-d14	59.9		37 - 115	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	38300	8.32			
1146-65-2	Naphthalene-d8	119000	10.33			
15067-26-2	Acenaphthene-d10	68200	13.18			
1517-22-2	Phenanthrene-d10	126000	15.58			
1719-03-5	Chrysene-d12	102000	19.23			
1520-96-3	Perylene-d12	109000	21			

Non-responsive bas

12/20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38	SDG No.:	K6401
Lab Sample ID:	K6401-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	28.1
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001374.D	1	12/23/19 08:45	12/23/19 18:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	~~140~~ 460	U	140	460	ug/Kg
108-95-2	Phenol	140	J	87.2	460	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	~~140~~ 460	U	140	460	ug/Kg
95-57-8	2-Chlorophenol	~~91.6~~	U	91.6	460	ug/Kg
95-48-7	2-Methylphenol	1500		97.7	460	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	~~120~~ 460	U	120	460	ug/Kg
98-86-2	Acetophenone	~~130~~ 460	U	130	460	ug/Kg
65794-96-9	3+4-Methylphenols	5600	E	140	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	~~190~~ 460	U	190	460	ug/Kg
67-72-1	Hexachloroethane	~~120~~	U	120	460	ug/Kg
98-95-3	Nitrobenzene	~~60.3~~	U	60.3	460	ug/Kg
78-59-1	Isophorone	~~51.0~~	U	51.0	460	ug/Kg
88-75-5	2-Nitrophenol	~~110~~ 460	U	110	460	ug/Kg
105-67-9	2,4-Dimethylphenol	2500		76.8	460	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	~~71.5~~ 460	U	71.5	460	ug/Kg
120-83-2	2,4-Dichlorophenol	~~71.3~~	U	71.3	460	ug/Kg
91-20-3	Naphthalene	~~69.2~~	U	69.2	460	ug/Kg
106-47-8	4-Chloroaniline	190	U	190	460	ug/Kg
87-68-3	Hexachlorobutadiene	84.5	U	84.5	460	ug/Kg
105-60-2	Caprolactam	160	U	160	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	82.3	U	82.3	460	ug/Kg
91-57-6	2-Methylnaphthalene	85.5	U	85.5	460	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	310	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	84.1	U	84.1	460	ug/Kg
95-95-4	2,4,5-Trichlorophenol	82.2	U	82.2	460	ug/Kg
92-52-4	1,1-Biphenyl	140	U	140	460	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	460	ug/Kg
88-74-4	2-Nitroaniline	96.7 460	U	96.7	460	ug/Kg
131-11-3	Dimethylphthalate	420	J	70.3	460	ug/Kg
208-96-8	Acenaphthylene	~~83.4~~ 460	U	83.4	460	ug/Kg
606-20-2	2,6-Dinitrotoluene	~~98.3~~	U	98.3	460	ug/Kg

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Report of Analysis

Client:	Weston Solutions			Date Collected:	12/16/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B38			SDG No.:	K6401
Lab Sample ID:	K6401-04			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	28.1
Sample Wt/Vol:	30	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001374.D	1	12/23/19 08:45	12/23/19 18:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~180~~ 460	U	180	460	ug/Kg
83-32-9	Acenaphthene	94.3	U	94.3	460	ug/Kg
51-28-5	2,4-Dinitrophenol	120	U	120	460	ug/Kg
100-02-7	4-Nitrophenol	89.8	U	89.8	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	460	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	460	ug/Kg
84-66-2	Diethylphthalate	87.9	U	87.9	460	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	460	ug/Kg
86-73-7	Fluorene	70.8	U	70.8	460	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	460	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	97.1	U	97.1	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	460	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.4	U	78.4	460	ug/Kg
118-74-1	Hexachlorobenzene	92.5	U	92.5	460	ug/Kg
1912-24-9	Atrazine	110	U	110	460	ug/Kg
87-86-5	Pentachlorophenol	150	U	150	460	ug/Kg
85-01-8	Phenanthrene	79.4	U	79.4	460	ug/Kg
120-12-7	Anthracene	77.5	U	77.5	460	ug/Kg
86-74-8	Carbazole	120	U	120	460	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	460	ug/Kg
206-44-0	Fluoranthene	68.8	U	68.8	460	ug/Kg
129-00-0	Pyrene	84.7	U	84.7	460	ug/Kg
85-68-7	Butylbenzylphthalate	88.7	U	88.7	460	ug/Kg
91-94-1	3,3-Dichlorobenzidine	210	U	210	460	ug/Kg
56-55-3	Benzo(a)anthracene	52.3	U	52.3	460	ug/Kg
218-01-9	Chrysene	~~59.2~~ 460	U	59.2	460	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	J	130	460	ug/Kg
117-84-0	Di-n-octyl phthalate	~~99.1~~ 460	U	99.1	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	67.6	U	67.6	460	ug/Kg
207-08-9	Benzo(k)fluoranthene	78.3	U	78.3	460	ug/Kg
50-32-8	Benzo(a)pyrene	61.7	U	61.7	460	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	460	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	72.8	U	72.8	460	ug/Kg

[redacted] 4/2/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38	SDG No.:	K6401
Lab Sample ID:	K6401-04	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	28.1
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001374.D	1	12/23/19 08:45	12/23/19 18:38	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	~~85.0~~ 460	U	85.0	460	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	460	ug/Kg
123-91-1	1,4-Dioxane	160	U	160	460	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	57.9	U	57.9	460	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	92.4		28 - 127	62%	SPK: 150
13127-88-3	Phenol-d6	98.8		34 - 127	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.1		31 - 132	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.3		39 - 123	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.7		30 - 133	63%	SPK: 150
1718-51-0	Terphenyl-d14	68.0		37 - 115	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52400	8.3			
1146-65-2	Naphthalene-d8	210000	10.34			
15067-26-2	Acenaphthene-d10	112000	13.2			
1517-22-2	Phenanthrene-d10	217000	15.6			
1719-03-5	Chrysene-d12	148000	19.25			
1520-96-3	Perylene-d12	151000	21.03			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	650	AB		5.62	ug/Kg
000108-38-3	Benzene, 1,3-dimethyl-	1800	J		6.55	ug/Kg
	unknown7.95	3600	JB		7.95	ug/Kg
000104-76-7	1-Hexanol, 2-ethyl-	1200	J		8.45	ug/Kg
000108-68-9	Phenol, 3,5-dimethyl-	770	J		10.1	ug/Kg
000099-89-8	Phenol, 4-(1-methylethyl)-	370	J		10.7	ug/Kg
000698-71-5	Phenol, 3-ethyl-5-methyl-	280	J		10.8	ug/Kg
003855-26-3	Phenol, 2-ethyl-4-methyl-	1100	J		11.0	ug/Kg
000622-80-0	Benzenamine, N-propyl-	1600	J		13.4	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		16.5	ug/Kg
000060-33-3	9,12-Octadecadienoic acid (Z,Z)-	600	J		17.5	ug/Kg
000693-71-0	trans-13-Octadecenoic acid	1300	J		17.5	ug/Kg
021956-56-9	Benzene, 1,3-dimethoxy-5-[(1E)-2-p	300	J		18.1	ug/Kg

Non-responsive 4/2/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38DL	SDG No.:	K6401
Lab Sample ID:	K6401-04DL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	28.1
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001409.D	2	12/23/19 08:45	12/25/19 06:19	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	270	UD	270	920	ug/Kg
108-95-2	Phenol	170	UD	170	920	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	290	UD	290	920	ug/Kg
95-57-8	2-Chlorophenol	180	UD	180	920	ug/Kg
95-48-7	2-Methylphenol	1300	D	200	920	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	250	UD	250	920	ug/Kg
98-86-2	Acetophenone	260	UD	260	920	ug/Kg
65794-96-9	3+4-Methylphenols	4900	D	270	920	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	380	UD	380	920	ug/Kg
67-72-1	Hexachloroethane	230	UD	230	920	ug/Kg
98-95-3	Nitrobenzene	120	UD	120	920	ug/Kg
78-59-1	Isophorone	100	UD	100	920	ug/Kg
88-75-5	2-Nitrophenol	210	UD	210	920	ug/Kg
105-67-9	2,4-Dimethylphenol	2400	D	150	920	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	UD	140	920	ug/Kg
120-83-2	2,4-Dichlorophenol	140	UD	140	920	ug/Kg
91-20-3	Naphthalene	140	UD	140	920	ug/Kg
106-47-8	4-Chloroaniline	380	UD	380	920	ug/Kg
87-68-3	Hexachlorobutadiene	170	UD	170	920	ug/Kg
105-60-2	Caprolactam	310	UD	310	920	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	UD	160	920	ug/Kg
91-57-6	2-Methylnaphthalene	170	UD	170	920	ug/Kg
77-47-4	Hexachlorocyclopentadiene	620	UD	620	920	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	UD	170	920	ug/Kg
95-95-4	2,4,5-Trichlorophenol	160	UD	160	920	ug/Kg
92-52-4	1,1-Biphenyl	290	UD	290	920	ug/Kg
91-58-7	2-Chloronaphthalene	210	UD	210	920	ug/Kg
88-74-4	2-Nitroaniline	190	UD	190	920	ug/Kg
131-11-3	Dimethylphthalate	360	JD	140	920	ug/Kg
208-96-8	Acenaphthylene	170	UD	170	920	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	UD	200	920	ug/Kg

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B38DL	SDG No.:	K6401
Lab Sample ID:	K6401-04DL	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	28.1
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001409.D	2	12/23/19 08:45	12/25/19 06:19	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~360~~ 920	UD	360	920	ug/Kg
83-32-9	Acenaphthene	190	UD	190	920	ug/Kg
51-28-5	2,4-Dinitrophenol	240	UD	240	920	ug/Kg
100-02-7	4-Nitrophenol	180	UD	180	920	ug/Kg
132-64-9	Dibenzofuran	250	UD	250	920	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	UD	230	920	ug/Kg
84-66-2	Diethylphthalate	180	UD	180	920	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	UD	230	920	ug/Kg
86-73-7	Fluorene	140	UD	140	920	ug/Kg
100-01-6	4-Nitroaniline	240	UD	240	920	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	190	UD	190	920	ug/Kg
86-30-6	n-Nitrosodiphenylamine	220	UD	220	920	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	UD	160	920	ug/Kg
118-74-1	Hexachlorobenzene	180	UD	180	920	ug/Kg
1912-24-9	Atrazine	220	UD	220	920	ug/Kg
87-86-5	Pentachlorophenol	300	UD	300	920	ug/Kg
85-01-8	Phenanthrene	160	UD	160	920	ug/Kg
120-12-7	Anthracene	160	UD	160	920	ug/Kg
86-74-8	Carbazole	250	UD	250	920	ug/Kg
84-74-2	Di-n-butylphthalate	270	UD	270	920	ug/Kg
206-44-0	Fluoranthene	140	UD	140	920	ug/Kg
129-00-0	Pyrene	170	UD	170	920	ug/Kg
85-68-7	Butylbenzylphthalate	180	UD	180	920	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	UD	410	920	ug/Kg
56-55-3	Benzo(a)anthracene	100	UD	100	920	ug/Kg
218-01-9	Chrysene	120	UD	120	920	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	260	UD	260	920	ug/Kg
117-84-0	Di-n-octyl phthalate	200	UD	200	920	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	UD	140	920	ug/Kg
207-08-9	Benzo(k)fluoranthene	160	UD	160	920	ug/Kg
50-32-8	Benzo(a)pyrene	120	UD	120	920	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	UD	200	920	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	UD	150	920	ug/Kg

Non-responsive 4/2/20

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Report of Analysis

Client:	Weston Solutions			Date Collected:	12/16/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B38DL			SDG No.:	K6401
Lab Sample ID:	K6401-04DL			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	28.1
Sample Wt/Vol:	30	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001409.D	2	12/23/19 08:45	12/25/19 06:19	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	170	UD	170	920	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	220	UD	220	920	ug/Kg
123-91-1	1,4-Dioxane	330	UD	330	920	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	120	UD	120	920	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	81.7		28 - 127	54%	SPK: 150
13127-88-3	Phenol-d6	85.9		34 - 127	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.7		31 - 132	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.8		39 - 123	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	70.6		30 - 133	47%	SPK: 150
1718-51-0	Terphenyl-d14	55.9		37 - 115	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	39000	8.28			
1146-65-2	Naphthalene-d8	146000	10.32			
15067-26-2	Acenaphthene-d10	80500	13.18			
1517-22-2	Phenanthrene-d10	148000	15.58			
1719-03-5	Chrysene-d12	117000	19.23			
1520-96-3	Perylene-d12	123000	21			

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Non-respon

1/2/20

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Weston Solutions			Date Collected:	12/17/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B39			SDG No.:	K6401
Lab Sample ID:	K6401-05			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	22.9
Sample Wt/Vol:	30.09	Units: g		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001375.D	1	12/23/19 08:45	12/23/19 19:08	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	~~130~~ 430	U	130	430	ug/Kg
108-95-2	Phenol	110	J	81.0	430	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	~~130~~ 430	U	130	430	ug/Kg
95-57-8	2-Chlorophenol	~~85.2~~ 430	U	85.2	430	ug/Kg
95-48-7	2-Methylphenol	97.9	J	90.8	430	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	~~110~~ 430	U	110	430	ug/Kg
98-86-2	Acetophenone	120	U	120	430	ug/Kg
65794-96-9	3+4-Methylphenols	130	U	130	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	180	U	180	430	ug/Kg
67-72-1	Hexachloroethane	110	U	110	430	ug/Kg
98-95-3	Nitrobenzene	56.0	U	56.0	430	ug/Kg
78-59-1	Isophorone	47.4	U	47.4	430	ug/Kg
88-75-5	2-Nitrophenol	98.7	U	98.7	430	ug/Kg
105-67-9	2,4-Dimethylphenol	71.4	U	71.4	430	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	66.5	U	66.5	430	ug/Kg
120-83-2	2,4-Dichlorophenol	66.3	U	66.3	430	ug/Kg
91-20-3	Naphthalene	64.3	U	64.3	430	ug/Kg
106-47-8	4-Chloroaniline	180	U	180	430	ug/Kg
87-68-3	Hexachlorobutadiene	78.6	U	78.6	430	ug/Kg
105-60-2	Caprolactam	150	U	150	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	76.5	U	76.5	430	ug/Kg
91-57-6	2-Methylnaphthalene	79.5	U	79.5	430	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	U	290	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.2	U	78.2	430	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.5	U	76.5	430	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	430	ug/Kg
91-58-7	2-Chloronaphthalene	~~97.5~~	U	97.5	430	ug/Kg
88-74-4	2-Nitroaniline	89.9 430	U	89.9	430	ug/Kg
131-11-3	Dimethylphthalate	330	J	65.3	430	ug/Kg
208-96-8	Acenaphthylene	~~77.5~~ 430	U	77.5	430	ug/Kg
606-20-2	2,6-Dinitrotoluene	~~91.4~~ 430	U	91.4	430	ug/Kg

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B39	SDG No.:	K6401
Lab Sample ID:	K6401-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	22.9
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001375.D	1	12/23/19 08:45	12/23/19 19:08	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~170~~ 430	U	170	430	ug/Kg
83-32-9	Acenaphthene	87.7	U	87.7	430	ug/Kg
51-28-5	2,4-Dinitrophenol	110	U	110	430	ug/Kg
100-02-7	4-Nitrophenol	83.5	U	83.5	430	ug/Kg
132-64-9	Dibenzofuran	120	U	120	430	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	430	ug/Kg
84-66-2	Diethylphthalate	81.7	U	81.7	430	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	430	ug/Kg
86-73-7	Fluorene	65.9	U	65.9	430	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	430	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	90.3	U	90.3	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	430	ug/Kg
101-55-3	4-Bromophenyl-phenylether	72.9	U	72.9	430	ug/Kg
118-74-1	Hexachlorobenzene	86.0	U	86.0	430	ug/Kg
1912-24-9	Atrazine	100	U	100	430	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	430	ug/Kg
85-01-8	Phenanthrene	73.8	U	73.8	430	ug/Kg
120-12-7	Anthracene	72.1	U	72.1	430	ug/Kg
86-74-8	Carbazole	120	U	120	430	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	130	430	ug/Kg
206-44-0	Fluoranthene	64.0	U	64.0	430	ug/Kg
129-00-0	Pyrene	78.7	U	78.7	430	ug/Kg
85-68-7	Butylbenzylphthalate	82.5	U	82.5	430	ug/Kg
91-94-1	3,3-Dichlorobenzidine	190	U	190	430	ug/Kg
56-55-3	Benzo(a)anthracene	48.6	U	48.6	430	ug/Kg
218-01-9	Chrysene	55.0	U	55.0	430	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	430	ug/Kg
117-84-0	Di-n-octyl phthalate	92.2	U	92.2	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	62.9	U	62.9	430	ug/Kg
207-08-9	Benzo(k)fluoranthene	72.8	U	72.8	430	ug/Kg
50-32-8	Benzo(a)pyrene	57.3	U	57.3	430	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	93.5	U	93.5	430	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	67.6	U	67.6	430	ug/Kg

Non-responsive based [redacted] 2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B39	SDG No.:	K6401
Lab Sample ID:	K6401-05	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	22.9
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001375.D	1	12/23/19 08:45	12/23/19 19:08	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	~~79.0~~ 430	U	79.0	430	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	430	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	430	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	53.8	U	53.8	430	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	93.5		28 - 127	62%	SPK: 150
13127-88-3	Phenol-d6	95.2		34 - 127	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.7		31 - 132	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.2		39 - 123	61%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.0		30 - 133	59%	SPK: 150
1718-51-0	Terphenyl-d14	67.5		37 - 115	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55000	8.3			
1146-65-2	Naphthalene-d8	191000	10.33			
15067-26-2	Acenaphthene-d10	112000	13.2			
1517-22-2	Phenanthrene-d10	209000	15.6			
1719-03-5	Chrysene-d12	155000	19.25			
1520-96-3	Perylene-d12	162000	21.03			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	650	AB		5.62	ug/Kg
	unknown7.94	3200	J		7.94	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		16.5	ug/Kg
015594-90-8	1-Heneicosanol	220	J		19.1	ug/Kg
000593-49-7	Heptacosane	100	J		20.7	ug/Kg
054833-23-7	Eicosane, 10-methyl-	120	J		21.1	ug/Kg
000112-95-8	Eicosane	91.0	JB		21.6	ug/Kg

Non-responsive

4/1201 4/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B40	SDG No.:	K6401
Lab Sample ID:	K6401-06	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	27.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001400.D	1	12/23/19 08:45	12/24/19 22:04	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	150	J	140	460	ug/Kg
108-95-2	Phenol	~~86.8~~	U	86.8	460	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	~~140~~	U	140	460	ug/Kg
95-57-8	2-Chlorophenol	~~91.2~~	U	91.2	460	ug/Kg
95-48-7	2-Methylphenol	110	J	97.2	460	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	~~120~~	U	120	460	ug/Kg
98-86-2	Acetophenone	~~130~~	U	130	460	ug/Kg
65794-96-9	3+4-Methylphenols	1000		140	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	~~190~~	U	190	460	ug/Kg
67-72-1	Hexachloroethane	~~120~~	U	120	460	ug/Kg
98-95-3	Nitrobenzene	~~60.0~~	U	60.0	460	ug/Kg
78-59-1	Isophorone	~~50.7~~	~~U~~ NJ	50.7	460	ug/Kg
88-75-5	2-Nitrophenol	~~110~~	U	110	460	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		76.4	460	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	~~71.2~~	U	71.2	460	ug/Kg
120-83-2	2,4-Dichlorophenol	71.0	U	71.0	460	ug/Kg
91-20-3	Naphthalene	68.9	U	68.9	460	ug/Kg
106-47-8	4-Chloroaniline	190	U	190	460	ug/Kg
87-68-3	Hexachlorobutadiene	84.1	U	84.1	460	ug/Kg
105-60-2	Caprolactam	160	U	160	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	81.9	U	81.9	460	ug/Kg
91-57-6	2-Methylnaphthalene	85.1	U	85.1	460	ug/Kg
77-47-4	Hexachlorocyclopentadiene	310	U	310	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	83.7	U	83.7	460	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.9	U	81.9	460	ug/Kg
92-52-4	1,1-Biphenyl	140	U	140	460	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	460	ug/Kg
88-74-4	2-Nitroaniline	~~96.2~~	U	96.2	460	ug/Kg
131-11-3	Dimethylphthalate	540		69.9	460	ug/Kg
208-96-8	Acenaphthylene	~~83.0~~	U	83.0	460	ug/Kg
606-20-2	2,6-Dinitrotoluene	97.8	U	97.8	460	ug/Kg

Non-responsive/Non-fed

7/21/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions			Date Collected:	12/17/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B40			SDG No.:	K6401
Lab Sample ID:	K6401-06			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	27.9
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001400.D	1	12/23/19 08:45	12/24/19 22:04	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	~~180~~ 460	U	180	460	ug/Kg
83-32-9	Acenaphthene	93.9	U	93.9	460	ug/Kg
51-28-5	2,4-Dinitrophenol	120	U	120	460	ug/Kg
100-02-7	4-Nitrophenol	89.4	U	89.4	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	460	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	460	ug/Kg
84-66-2	Diethylphthalate	87.5	U	87.5	460	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	460	ug/Kg
86-73-7	Fluorene	70.5	U	70.5	460	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	460	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	96.6	U	96.6	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	460	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.1	U	78.1	460	ug/Kg
118-74-1	Hexachlorobenzene	92.1	U	92.1	460	ug/Kg
1912-24-9	Atrazine	110	U	110	460	ug/Kg
87-86-5	Pentachlorophenol	150	U	150	460	ug/Kg
85-01-8	Phenanthrene	79.0	U	79.0	460	ug/Kg
120-12-7	Anthracene	77.2	U	77.2	460	ug/Kg
86-74-8	Carbazole	120	U	120	460	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	460	ug/Kg
206-44-0	Fluoranthene	68.5	U	68.5	460	ug/Kg
129-00-0	Pyrene	84.3	U	84.3	460	ug/Kg
85-68-7	Butylbenzylphthalate	88.3	U	88.3	460	ug/Kg
91-94-1	3,3-Dichlorobenzidine	200	U	200	460	ug/Kg
56-55-3	Benzo(a)anthracene	52.0	U	52.0	460	ug/Kg
218-01-9	Chrysene	58.9	U	58.9	460	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	460	ug/Kg
117-84-0	Di-n-octyl phthalate	98.7	U	98.7	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	67.3	U	67.3	460	ug/Kg
207-08-9	Benzo(k)fluoranthene	78.0	U	78.0	460	ug/Kg
50-32-8	Benzo(a)pyrene	61.4	U	61.4	460	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	460	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	72.4	U	72.4	460	ug/Kg

[redacted] 12/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions			Date Collected:	12/17/19
Project:	R35727			Date Received:	12/20/19
Client Sample ID:	C0B40			SDG No.:	K6401
Lab Sample ID:	K6401-06			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	27.9
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP001400.D	1	12/23/19 08:45	12/24/19 22:04	PB125662

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	~~84.6~~ 460	U	84.6	460	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	460	ug/Kg
123-91-1	1,4-Dioxane	160	U	160	460	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	57.6	U	57.6	460	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.3		28 - 127	56%	SPK: 150
13127-88-3	Phenol-d6	83.4		34 - 127	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.8		31 - 132	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.3		39 - 123	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.2		30 - 133	58%	SPK: 150
1718-51-0	Terphenyl-d14	60.0		37 - 115	60%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52200	8.32			
1146-65-2	Naphthalene-d8	187000	10.33			
15067-26-2	Acenaphthene-d10	84700	13.19			
1517-22-2	Phenanthrene-d10	163000	15.6			
1719-03-5	Chrysene-d12	124000	19.23			
1520-96-3	Perylene-d12	128000	21.02			
TENTATIVE IDENTIFIED COMPOUNDS						
541-73-1	1,3-Dichlorobenzene	31600	J		8.23	ug/Kg
106-46-7	1,4-Dichlorobenzene	46800	J		8.36	ug/Kg
95-50-1	1,2-Dichlorobenzene	90400	J		8.63	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4500	J		10.3	ug/Kg
003855-26-3	Phenol, 2-ethyl-4-methyl-	2700	J		11.0	ug/Kg
	unknown12.23	3600	J		12.2	ug/Kg
1000372-75-2	Isobutyl 2-methylpentyl carbonate	3000	J		12.6	ug/Kg
000622-80-0	Benzenamine, N-propyl-	26100	J		13.5	ug/Kg
001120-36-1	1-Tetradecene	4100	J		13.8	ug/Kg
065611-32-7	Acetic acid, trichloro-, nonyl est	5700	J		13.9	ug/Kg
086711-78-6	2- Chloropropionic acid, decyl est	2600	J		14.1	ug/Kg
018450-73-2	1-Heptanol, 2,4-dimethyl-, (R,R)-(	6900	J		14.2	ug/Kg
	unknown14.26	4400	J		14.3	ug/Kg

Non-responsive

4/2/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37	SDG No.:	K6401
Lab Sample ID:	K6401-01	Matrix:	SOIL
Analytical Method:	SW8081	% Moisture:	24.9 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL055187.D	1	12/23/19 08:18	12/23/19 17:08	PB125661

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	7.20	~~P~~ J	0.43	2.30	ug/kg
319-85-7	beta-BHC	~~0.63~~ 2.30	U	0.63	2.30	ug/kg
319-86-8	delta-BHC	~~0.81~~	U	0.81	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	~~1.10~~	U	1.10	2.30	ug/kg
76-44-8	Heptachlor	~~0.35~~	U	0.35	2.30	ug/kg
309-00-2	Aldrin	~~0.25~~	U	0.25	2.30	ug/kg
1024-57-3	Heptachlor epoxide	~~0.34~~	U	0.34	2.30	ug/kg
959-98-8	Endosulfan I	~~0.20~~	U	0.20	2.30	ug/kg
60-57-1	Dieldrin	~~0.21~~	U	0.21	2.30	ug/kg
72-55-9	4,4-DDE	8.50 J		0.24	2.30	ug/kg
72-20-8	Endrin	~~0.25~~ 2.30	U	0.25	2.30	ug/kg
33213-65-9	Endosulfan II	~~0.63~~ 2.30	U	0.63	2.30	ug/kg
72-54-8	4,4-DDD	340	E	0.20	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.29 2.30	U	0.29	2.30	ug/kg
50-29-3	4,4-DDT	32.8 ~~P~~ J		0.21	2.30	ug/kg
72-43-5	Methoxychlor	~~0.58~~ 2.30	U	0.58	2.30	ug/kg
53494-70-5	Endrin ketone	~~0.28~~	U	0.28	2.30	ug/kg
7421-93-4	Endrin aldehyde	~~0.27~~	U	0.27	2.30	ug/kg
5103-71-9	alpha-Chlordane	~~0.25~~	U	0.25	2.30	ug/kg
5103-74-2	gamma-Chlordane	~~0.29~~	U	0.29	2.30	ug/kg
8001-35-2	Toxaphene	~~4.40~~	U	4.40	22.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.6		10 - 169	~~73%~~	SPK: 20
877-09-8	Tetrachloro-m-xylene	63.7	*	31 - 151	318%	SPK: 20

Non-responsive

4/21/20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/16/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B37DL	SDG No.:	K6401
Lab Sample ID:	K6401-01DL	Matrix:	SOIL
Analytical Method:	SW8081	% Moisture:	24.9 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL055206.D	10	12/23/19 08:18	12/24/19 10:53	PB125661

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	8.50 22.6	JD	4.30	22.6	ug/kg
319-85-7	beta-BHC	6.30	UD	6.30	22.6	ug/kg
319-86-8	delta-BHC	8.10	UD	8.10	22.6	ug/kg
58-89-9	gamma-BHC (Lindane)	10.6	UD	10.6	22.6	ug/kg
76-44-8	Heptachlor	3.50	UD	3.50	22.6	ug/kg
309-00-2	Aldrin	2.50	UD	2.50	22.6	ug/kg
1024-57-3	Heptachlor epoxide	3.40	UD	3.40	22.6	ug/kg
959-98-8	Endosulfan I	2.00	UD	2.00	22.6	ug/kg
60-57-1	Dieldrin	2.10	UD	2.10	22.6	ug/kg
72-55-9	4,4-DDE	10.9	JD	2.40	22.6	ug/kg
72-20-8	Endrin	2.50	UD	2.50	22.6	ug/kg
33213-65-9	Endosulfan II	6.30	UD	6.30	22.6	ug/kg
72-54-8	4,4-DDD	370	~~D~~ J	2.00	22.6	ug/kg
1031-07-8	Endosulfan Sulfate	2.90 22.6	UD	2.90	22.6	ug/kg
50-29-3	4,4-DDT	37.8	DP	2.10	22.6	ug/kg
72-43-5	Methoxychlor	5.80	UD	5.80	22.6	ug/kg
53494-70-5	Endrin ketone	2.80	UD	2.80	22.6	ug/kg
7421-93-4	Endrin aldehyde	2.70	UD	2.70	22.6	ug/kg
5103-71-9	alpha-Chlordane	2.50	UD	2.50	22.6	ug/kg
5103-74-2	gamma-Chlordane	2.90	UD	2.90	22.6	ug/kg
8001-35-2	Toxaphene	44.3	UD	44.3	230	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	24.4		10 - 169	122%	SPK: 20
877-09-8	Tetrachloro-m-xylene	78.0	*	31 - 151	390%	SPK: 20

[redacted] 1/2/20

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Report of Analysis

Client:	Weston Solutions		Date Collected:	12/16/19	
Project:	R35727		Date Received:	12/20/19	
Client Sample ID:	C0B38		SDG No.:	K6401	
Lab Sample ID:	K6401-04		Matrix:	SOIL	
Analytical Method:	SW8081		% Moisture:	28.1	Decanted:
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL055190.D	1	12/23/19 08:18	12/23/19 17:50	PB125661

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	~~0.45~~ 2.40	U	0.45	2.40	ug/kg
319-85-7	beta-BHC	0.66	U	0.66	2.40	ug/kg
319-86-8	delta-BHC	0.85	U	0.85	2.40	ug/kg
58-89-9	gamma-BHC (Lindane)	1.10	U	1.10	2.40	ug/kg
76-44-8	Heptachlor	0.37	U	0.37	2.40	ug/kg
309-00-2	Aldrin	0.27	U	0.27	2.40	ug/kg
1024-57-3	Heptachlor epoxide	0.35	U	0.35	2.40	ug/kg
959-98-8	Endosulfan I	0.21	U	0.21	2.40	ug/kg
60-57-1	Dieldrin	0.22	U	0.22	2.40	ug/kg
72-55-9	4,4-DDE	0.77	~~JP~~ J	0.25	2.40	ug/kg
72-20-8	Endrin	~~0.26~~ 2.40	U	0.26	2.40	ug/kg
33213-65-9	Endosulfan II	~~0.66~~	U	0.66	2.40	ug/kg
72-54-8	4,4-DDD	2.40	~~P~~ J	0.21	2.40	ug/kg
1031-07-8	Endosulfan Sulfate	~~0.30~~ 2.40	U	0.30	2.40	ug/kg
50-29-3	4,4-DDT	1.80	~~JP~~ J	0.21	2.40	ug/kg
72-43-5	Methoxychlor	~~0.61~~ 2.40	U	0.61	2.40	ug/kg
53494-70-5	Endrin ketone	0.29	U	0.29	2.40	ug/kg
7421-93-4	Endrin aldehyde	0.28	U	0.28	2.40	ug/kg
5103-71-9	alpha-Chlordane	0.26	U	0.26	2.40	ug/kg
5103-74-2	gamma-Chlordane	0.30	U	0.30	2.40	ug/kg
8001-35-2	Toxaphene	4.60	U	4.60	23.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.22		10 - 169	41%	SPK: 20
877-09-8	Tetrachloro-m-xylene	11.2		31 - 151	56%	SPK: 20

Non-responsive b

4/2/20

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Report of Analysis

Client:	Weston Solutions		Date Collected:	12/17/19	
Project:	R35727		Date Received:	12/20/19	
Client Sample ID:	C0B39		SDG No.:	K6401	
Lab Sample ID:	K6401-05		Matrix:	SOIL	
Analytical Method:	SW8081		% Moisture:	22.9	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Pesticide-TCL	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL055191.D	1	12/23/19 08:18	12/23/19 18:04	PB125661

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.42 2.20	U	0.42	2.20	ug/kg
319-85-7	beta-BHC	0.61	U	0.61	2.20	ug/kg
319-86-8	delta-BHC	0.79	U	0.79	2.20	ug/kg
58-89-9	gamma-BHC (Lindane)	1.00	U	1.00	2.20	ug/kg
76-44-8	Heptachlor	0.34	U	0.34	2.20	ug/kg
309-00-2	Aldrin	0.25	U	0.25	2.20	ug/kg
1024-57-3	Heptachlor epoxide	0.33	U	0.33	2.20	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.20	ug/kg
60-57-1	Dieldrin	0.21	U	0.21	2.20	ug/kg
72-55-9	4,4-DDE	0.23	U	0.23	2.20	ug/kg
72-20-8	Endrin	0.24	U	0.24	2.20	ug/kg
33213-65-9	Endosulfan II	0.61	U	0.61	2.20	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.20	ug/kg
1031-07-8	Endosulfan Sulfate	0.28	U	0.28	2.20	ug/kg
50-29-3	4,4-DDT	0.20	U	0.20	2.20	ug/kg
72-43-5	Methoxychlor	0.57	U	0.57	2.20	ug/kg
53494-70-5	Endrin ketone	0.27	U	0.27	2.20	ug/kg
7421-93-4	Endrin aldehyde	0.26	U	0.26	2.20	ug/kg
5103-71-9	alpha-Chlordane	0.24	U	0.24	2.20	ug/kg
5103-74-2	gamma-Chlordane	0.28	U	0.28	2.20	ug/kg
8001-35-2	Toxaphene	4.30	U	4.30	22.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.3		10 - 169	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		31 - 151	90%	SPK: 20

[redacted] 4/2/20

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Report of Analysis

Client:	Weston Solutions	Date Collected:	12/17/19
Project:	R35727	Date Received:	12/20/19
Client Sample ID:	C0B40	SDG No.:	K6401
Lab Sample ID:	K6401-06	Matrix:	SOIL
Analytical Method:	SW8081	% Moisture:	27.9 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL055192.D	1	12/23/19 08:18	12/23/19 18:18	PB125661

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	~~0.45~~ 2.40	U	0.45	2.40	ug/kg
319-85-7	beta-BHC	~~0.65~~	U	0.65	2.40	ug/kg
319-86-8	delta-BHC	~~0.85~~	U	0.85	2.40	ug/kg
58-89-9	gamma-BHC (Lindane)	~~1.10~~	U	1.10	2.40	ug/kg
76-44-8	Heptachlor	~~0.36~~	U	0.36	2.40	ug/kg
309-00-2	Aldrin	~~0.26~~	U	0.26	2.40	ug/kg
1024-57-3	Heptachlor epoxide	~~0.35~~	U	0.35	2.40	ug/kg
959-98-8	Endosulfan I	~~0.21~~	U	0.21	2.40	ug/kg
60-57-1	Dieldrin	~~0.22~~	U	0.22	2.40	ug/kg
72-55-9	4,4-DDE	4.40		0.25	2.40	ug/kg
72-20-8	Endrin	~~0.26~~ 2.40	U	0.26	2.40	ug/kg
33213-65-9	Endosulfan II	~~0.65~~	U	0.65	2.40	ug/kg
72-54-8	4,4-DDD	20.7		0.21	2.40	ug/kg
1031-07-8	Endosulfan Sulfate	~~0.30~~ 2.40	U	0.30	2.40	ug/kg
50-29-3	4,4-DDT	11.9		0.21	2.40	ug/kg
72-43-5	Methoxychlor	~~0.61~~ 2.40	U	0.61	2.40	ug/kg
53494-70-5	Endrin ketone	4.30		0.29	2.40	ug/kg
7421-93-4	Endrin aldehyde	~~0.28~~ 2.40	U	0.28	2.40	ug/kg
5103-71-9	alpha-Chlordane	~~0.26~~	U	0.26	2.40	ug/kg
5103-74-2	gamma-Chlordane	~~0.30~~	U	0.30	2.40	ug/kg
8001-35-2	Toxaphene	~~4.60~~	U	4.60	23.5	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.38		10 - 169	42%	SPK: 20
877-09-8	Tetrachloro-m-xylene	7.71		31 - 151	39%	SPK: 20

[redacted] 4/2/20

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CASE NARRATIVE

Weston Solutions
Project Name: R35727
Project # N/A
Chemtech Project # K6401
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/20/2019.
1 Water sample was received on 12/20/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator.The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260C.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD for {VX1223WBSD01} with File ID: VX014200.D met criteria except for Tetrachloroethene[22%] .

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (82D122419W.M) for Acetone this compound is passing on Quadratic Regression and Methylene Chloride this compound is passing on Linear Regression .

The % RSD is greater than 15% in the Initial Calibration method (82X121319W.M) for Carbon Disulfide, Bromochloromethane thise compounds are passing on Linear Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

Samples C0B37, C0B38 and C0B40 were run directly in methanol with dilution due to sample have organic smell and high PID readings.

E. Additional Comments:
Both water and soils are for 7 day TAT as per conversation with client.

Samples for MS/MSD for VOC analysis were not provided with this set of samples.
The Blank Spike Duplicate is reported with the data.

F. Calculation:

Water Calculation in ug/L = $\frac{(A \times)(I s)(Df)}{(Ais)(RRF)(V0)}$

Where,
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Vo = Volume of water purged in milliliters (mL)
Df = Dilution factor.

Low Level Soil Calculation in ug/Kg dry weight basis = $\frac{(A \times)(I s)(Df)}{(Ais)(RRF)(Ws)(D)}$

Where,
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Df = Dilution factor
Ws= Weight of sample
D= $\frac{100 - \%moisture}{100}$

High Level Soil Calculation in ug/Kg dry weight basis = $\frac{(A \times)(I s)(Vt)\ 1000\ (Df)}{(Ais)(RRF)(Va)(Ws)(D)}$

Where,
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration standard.
Vt = Total volume of methanol extract in milliliters (mL), (usually 10 mL)
Va = Volume of aliquot in microliters (uL) (usually 100 uL)

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Df = Dilution factor
Ws= Weight of sample
D = $\frac{100 - \%moisture}{100}$

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

G. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature [redacted] REVIEWED Non-responsive based on revised scope at 1:32 pm, Dec 31, 2019

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CASE NARRATIVE

Weston Solutions
Project Name: R35727
Project # N/A
Chemtech Project # K6401
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/20/2019.
1 Water sample was received on 12/20/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_P using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270D and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BP001384.D met the requirements except for Isophorone is failing marginally low and 2,4,6-Tribromophenol is failing high but no hit in any samples so no corrective action required.

The Continuous Calibration File ID BP001408.D met the requirements except for 1,4-Dioxane,2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Benzo(g,h,i)perylene, Hexachlorocyclopentadiene,Hexachloroethane,Indeno(1,2,3-cd)pyrene and Pentachlorophenol are failing low but only dilution samples analysed under this CCAl so no corrective action required.

The Tuning criteria met requirements.

Samples C0B37, C0B38 were diluted due to high concentrations.

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E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

$$\text{Concentration } \mu g/Kg \text{(Dry weight basis)} = \frac{(A_x)\,(I_s)\,(V_t)\,(DF)\,(GPC)}{(A_{is})\,(\overline{RRF})\,(V_i)\,(W_s)\,(D)}$$

A_x	=	Area of characteristic ion for the compound to be measured.
A_{is}	=	Area of characteristic ion for the internal standard.
I_s	=	Amount of internal standard injected in ng.
V_i	=	Volume of extract injected in µL.
V_t	=	Volume of the concentrated extract in µL (If no GPC cleanup is performed, then V_t = 1000 µL. If GPC cleanup is performed, then V_t = V_{out}) .
D	=	$\frac{100 - \%Moisture}{100}$
W_s	=	Weight of Sample extracted in g.
$\overline{RRF}$	=	Mean relative response factor determined from the initial calibration standard.
$GPC = \frac{V_{in}}{V_{out}}$	=	GPC factor.
V_{in}	=	Volume of extract loaded onto GPC column.
V_{out}	=	Volume of extract collected after GPC cleanup.
DF	=	Dilution Factor. The DF for analysis of soil/sediment samples for semivolatiles by this method is defined as follows: µL most conc. extract used to make dilution + µL clean solvent --- µL most conc. extract used to make dilution If no dilution is performed, DF = 1.0.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature [redacted] REVIEWED Non-responsive based on revised scope at 1:32 pm, Dec 31, 2019

CHEMTECH
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CASE NARRATIVE

Weston Solutions
Project Name: R35727
Project # N/A
Chemtech Project # K6401
Test Name: Pesticide-TCL

A. Number of Samples and Date of Receipt:
6 Solid samples were received on 12/20/2019.
1 Water sample was received on 12/20/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Pesticide-TCL, SVOC-TCL BNA -20, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Pesticide-TCL.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
C0B37 [Tetrachloro-m-xylene(1) - 318%],
C0B37DL [Tetrachloro-m-xylene(1) - 390%],
C0B37MS [Tetrachloro-m-xylene(1) - 449%] and
C0B37MSD [Tetrachloro-m-xylene(1) - 494%].

The Retention Times were acceptable for all samples.

The MS {K6401-02MS} with File ID: PL055188.D recoveries met the requirements for all compounds except for 4,4-DDD[949%], alpha-BHC[186%] and alpha-Chlordane[191%] .

The MSD {K6401-03MSD} with File ID: PL055189.D recoveries met the acceptable requirements except for 4,4-DDD[903%] and alpha-Chlordane[187%] .

The RPD for {K6401-03MSD} with File ID: PL055189.D met criteria except for alpha-BHC[57%] .

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The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

Sample C0B37 was diluted due to high concentration.

E. Additional Comments:

F. Calculation for the Concentration in Soil Samples

$$\text{Concentration ug/Kg} = \frac{(Ax)\,(Vt)\,(DF)}{(ICF)\,(Vi)\,(Ws)\,(D)}$$

Where,
Ax = Area for the parameter to be measured.
ICF = average calibration factor for the calibration standards.
Vt = Volume of total extract in uL (Take into account dilutions)
Is = Amount of standard injected in nanograms (ng)
Vi = Volume of extract injected.
Vs = Volume of Aqueous extracted (mL).

$$D = \frac{100 - \%\ \text{Moisture}}{100}$$

Ws = Weight of sample extracted (g).

G. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature [redacted] REVIEWED Non-responsive based on revised scope [redacted] at 1:33 pm, Dec 31, 2019

ESAT DATA VALIDATION EVALUATION CHECKLIST
Contract # EP-W-13-023

TDF #: 0120053	Revision: 0	Case #: R35727	SDG: C0B37
Site Name: SHILOH CHURCH ROAD			
Parameter(s): VOA/SVOA/PEST			
Method(s): SW 846 Methods 8260C, 8270D and 8081B			
Laboratory: Chemtech			
Reviewer: [redacted]		Date Submitted to EPA: 5/19/2020	
EPA RPM/OSC: CHRIS WAGNER		Number of hours spent on review: 26	
cc: [redacted] (WESTON)		Number of Samples/Aliquots: 5/13	
Validation Level/Stage: M3/S4VM		EDD: No	

CRITERIA	YES	NO	COMMENTS
Format according to Region III protocol	☒	☐	
Clarity of report	☒	☐	
Qualifiers applied correctly	☒	☐	
Consistency between narrative and data summary form(s)	☒	☐	
Error-free transcription	☒	☐	

EFFICIENCY OF CONTRACTOR

Approval recommended for current submission	☒	☐	
Time spent on review is reasonable	☒	☐	
Technical Evaluation	3.7		[redacted]

ESD OVERSIGHT DATES	TPO	Oversight	ESAT
Received at EPA	5/19/2020		
Oversight assigned	5/19/2020		
Oversight received		5/19/2020	
Oversight completed		5/19/2020	
Feedback given	5/19/2020		
Mailed to RPM			

Data Validation Checklist - Organics

TDF #: 0120053	Case/DAS #: R35727
Site Name: SHILOH CHURCH ROAD	SDG #: C0B37
Program: ☐ CLP ☒ Tier IV ☐ Other	DV Type: ☒ Org ☐ Ino ☐ HiRes ☐ Rad ☐ Asb
Parameter: VOA/SVOA/PEST	DV Regional Level: M3
SOW/Method: SW 846 Methods 8260C, 8270D, 8081B	DV Stage: S4VM
Laboratory Code: CHM	Reviewer [redacted]

Due Date: 4/2/2020

General

CRITERIA	CHECK	COMMENTS
EPA Oversight Checklist		
TDF #	☒	
Case #	☒	
SDG #	☒	
Site Name	☒	
Laboratory	☒	
EPA OSC/RPM	☒	
CC: (Contractors)	☒	
Validation Level/Stage	☒	
Parameter	☒	
Number of Samples/Aliquots	☒	
Narrative		
Report Header	☒	
Report Footer	☒	
Overview		
Laboratory	☒	
Analytical method	☒	
Analytical services program	☒	
NFG reference	☒	
Validation level	☒	
Data package receipt date	☒	
Criteria		
Qualifier list	☒	
Appendix A		
Regional COC/ARF	☒	
Appendix B		
Laboratory narrative/Excerpts	☒	
Appendix C		
EXES report/Supplemental	☒	

General Comments:

Reviewed By: [redacted] Date: 4/6/20

Data Validation Checklist - Organics

TDF #: 0120053	Case/DAS #: R35727
Site Name: SHILOH CHURCH ROAD	SDG #: C0B37
Program: ☐ CLP ☒ Tier IV ☐ Other	DV Type: ☒ Org ☐ Ino ☐ HiRes ☐ Rad ☐ Asb
Parameter: VOA/SVOA/PEST	DV Regional Level: M3
SOW/Method: SW 846 Methods 8260C, 8270D, 8081B	DV Stage: S4VM
Laboratory Code: CHM	Reviewer [redacted]

Technical

Section	Check	Comments
Overview	☒	
Matrix and # of samples	☒	
Field QC samples	☒	
Summary	☒	
Major problems	☒	
Minor problems	☒	
Notes	☒	
Compounds below CRQL	☒	
Blank contaminants	☒	
Field Duplicates	☒	
Field/Trip Blanks	☒	
Dilutions	☒	
Carryover	☒	
Manual integration	☒	
TICs	☒	
Calculation	☒	
SSRs/Form Is	☒	
Non-Detect RLs	☐	Fixed DAG
EDD	☒	

DV Item	C eck	Qualifier Applied	Comments
Preservation/Holding Time	☒		
Instrument Performance Check	☒		
Initial Calibration	☒		
Continuing Calibration	☒		
Blanks	☒		
DMCs/Surrogates	☒		
MS/MSDs	☒		
LCS/LCSDs	☒		
Internal Standards	☒		
Other:	☐		

General Comments:

Data Validation Checklist - Organics

TDF #: 0120053	Case/DAS #: R35727
Site Name: SHILOH CHURCH ROAD	SDG #: C0B37
Program: ☐ CLP ☒ Tier IV ☐ Other	DV Type: ☒ Org ☐ Ino ☐ HiRes ☐ Rad ☐ Asb
Parameter: VOA/SVOA/PEST	DV Regional Level: M3
SOW/Method: SW 846 Methods 8260C, 8270D, 8081B	DV Stage: S4VM
Laboratory Code: CHM	Reviewer [redacted]

Reviewed By: _____ [redacted] _____ Date: ___5/18/20____